

Muzahir Abbas

AI Automation & Full Stack Engineer

Islamabad, Pakistan - 44080 • +923125039952 • Born: 26/12/1996 • Nationality: Pakistani

muzahirabbas247@gmail.com • [LinkedIn](#) • [GitHub](#) • [Portfolio](#)



AI Automation & Full Stack Engineer with a background in technical art, specializing in building end-to-end intelligent systems. Proven expertise in developing custom SaaS applications, automating complex business workflows with Generative AI, and deploying robust solutions using Python, serverless architecture, and modern web frameworks. Passionate about creating tools that eliminate operational friction and scale productivity.

Skills

AI & Machine Learning

Generative AI • Large Language Models (LLMs) • RAG (Retrieval-Augmented Generation) • AI Agent Architectures • Fine-Tuning • Vector Databases • Prompt Engineering • MCP (Model Context Protocol) • LangChain

Automation & DevOps

Business Process Automation (BPA) • Workflow Automation (Make • Zapier • n8n) • CI/CD (GitHub Actions) • Docker • Google Cloud Platform (GCP) • Serverless (Cloudflare Workers / AWS Lambda)

Backend & Databases

Python (Flask) • C++ • REST APIs • SQL • NoSQL • Firebase • GraphQL

Frontend

JavaScript • React.js • HTML5 & CSS3 • Tailwind CSS • Vite.js • WebGL (Three.js) • Node.Js

Languages

English (Fluent) • Urdu (Native) • German (Beginner)

Work Experience

Creative Technology Lead (AI & Automation)

04/2024 Present

Sparke Production — Islamabad, Pakistan

- Architected and deployed an AI-first production model, building generative AI workflows for 2D/3D asset creation that accelerated content delivery by 50%.
- Automated key business operations, including marketing content generation and digital asset management, resulting in a 40% increase in team productivity.

AI & Automation | SaaS Developer

04/2024 Present

Part Time & Freelancing — Islamabad, Pakistan

- Engineered and delivered custom AI-powered SaaS applications and full-stack solutions for a diverse client portfolio, utilizing Python, Flask, and serverless architectures.
- Automated core business processes for clients by integrating LLMs with Zapier and Make, reducing manual task handling in marketing and sales by over 70%.

Lead Technical Artist & Co-Founder

01/2021 04/2024

Sparke Production — Islamabad, Pakistan

- Developed custom Python tools and procedural systems for Unreal Engine, automating complex technical art workflows and increasing team efficiency by 25%.
- Directed the technical art pipeline for over 5 major real-time projects, ensuring seamless integration between creative assets and C++/Blueprint code.

Technology Lead & Developer

07/2025 09/2025

Eco Hope (Part-time) — Islmbd, Pakistan

- Designed, developed, and launched a full-stack donor and profile management portal using modern web technologies and a SQL database, enhancing data transparency.

- Implemented automation scripts to streamline data handling and reporting processes, improving operational efficiency for NGO staff and volunteers by 30%.

Education

National University of Sciences and Technology (NUST)

09/2015 06/2020

Bachelor of Science - BS, Computer Science

Certifications

AI Agent Developer — Vanderbilt University (2025)

Generative AI Automation Specialization — Vanderbilt University (2025)

Google IT Automation with Python — Google (2025)

IBM RAG and Agentic AI — IBM (2025)

OpenEDG Python Institute: Programming with Python Professional Certificate — OpenEDG Python Institute (2024)

Docker Foundations Professional Certificate — Docker, Inc (2024)

Epic Games Game Design Professional Certificate — Epic Games (2025)

Projects

AI-Powered Cinematographic Shot Generator

Engineered a full-stack tool that transforms narrative text into generative prompts and shot lists, significantly accelerating pre-production planning for creative teams.

Veritas Lens: AI Fact-Checker Chrome Extension

Developed an AI-powered browser extension to critically evaluate online content by providing on-demand fact-checking, source analysis, and counterarguments.

AI Career Copilot Web App

Built a SaaS platform that completely optimizes the job hunt process, by curating tailored CVs, Cover letters, assisting with reach out, form filling and every aspect of job application process.

AI-Powered Serverless Social Media Scheduler

Created a serverless application that automates content adaptation across platforms and schedules publishing, demonstrating scalable automation for content marketing.

AI-Powered Web App Generation Workflow

Designed a workflow using Gemini/GPT to convert plain-English specifications into a runnable React/Flask application scaffold, reducing MVP setup time by 80%.

Interactive Developer Portfolio (React & WebGL)

Developed an immersive 3D portfolio using React and Three.js to dynamically showcase frontend development, UI/UX, and 3D integration skills.

TwoFold: AI-Powered Relationship Growth Platform

Built a privacy-first AI coaching platform with React, Flask, and Firebase, demonstrating complex multi-agent orchestration for personal development.